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L15: Entry 104 of 115

File: DWPI

Jan 14, 1994

DERWENT-ACC-NO: 1994-051399

DERWENT-WEEK: 199407

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TITLE: Simple and efficient regulation of diffraction wavelength of hologram - by applying diffusion paint compsn. contg. volatile swelling agent(s), residual diffusion ingredients and binder ingredients

PATENT-ASSIGNEE:

ASSIGNEE

CODE

NIPPON PAINT CO LTD

NIPA

PRIORITY-DATA: 1992JP-0157879 (June 17, 1992)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

JP 06004015 A

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G03H001/02

APPLICATION-DATA:

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DESCRIPTOR

JP06004015A

June 17, 1992

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INT-CL (IPC): G03H 1/02

ABSTRACTED-PUB-NO: JP06004015A

BASIC-ABSTRACT:

Regulation of the diffraction wavelength of a hologram has a process of applying, to the surface of the hologram, a diffusion paint compsn. contg. (A) a volatile swelling agent(s) capable of dissolving binder ingredients and swelling the hologram, (B) a residual diffusion ingredient(s) capable of penetrating into the hologram through diffusion and (C) a binder ingredient(s).

(A) is e.g. one or a mixt. of mineral spirit, toluene, xylene, methanol, ethanol, isopropyl alcohol, amyl alcohol, sec-isoamyl alcohol, methyl isobutyl ketone, ethyl acetate and dioxane. (B) is pref. one or a mixt. of radical and cation polymerising monomers, high-b.pt. organic solvents and plasticisers, such as acrylic and itaconic acid, acrylic esters, diglycerol polyglycidyl ether, 3,4-epoxycyclohexylme thyl-3' 4'-epoxycyclohexane carboxylate, vinyl glycidyl ether, butyl benzene, tributyl phosphate, dibutyl sebacate and methyl abietate. (C) is e.g. chlorinated polyethylene, vinyl chloride-acrylonitrile copolymer and/or acetyl cellulose.

USE/ADVANTAGE - The method offers easy and efficient holograms diffracting light of any wavelength.

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: SIMPLE EFFICIENCY REGULATE DIFFRACTED WAVELENGTH HOLOGRAM APPLY DIFFUSION PAINT COMPOSITION CONTAIN VOLATILE SWELLING AGENT RESIDUE DIFFUSION INGREDIENT BIND INGREDIENT

DERWENT-CLASS: A89 G06 P84 V07

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L15: Entry 90 of 115

File: JPAB

Jan 14, 1994

PUB-NO: JP406004015A

DOCUMENT-IDENTIFIER: JP 06004015 A

TITLE: METHOD FOR ADJUSTING DIFFRACTION WAVELENGTH OF HOLOGRAM

PUBN-DATE: January 14, 1994

INVENTOR-INFORMATION:

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APPL-NO: JP04157879

APPL-DATE: June 17, 1992

US-CL-CURRENT: 359/13

INT-CL (IPC): G03H 1/02

ABSTRACT:

PURPOSE: To efficiently obtain a hologram for diffracting light of an arbitrary wavelength by a simple operation by applying a volatile swelling solvent, residual diffusion component and diffusion coating material compsn. on the surface of the hologram.

CONSTITUTION: This method consists of a stage for applying the volatile swelling solvent which can solve a binder component and can swell the hologram, the residual diffusion component which can penetrate and diffuse into the hologram and the diffusion coating material compsn. contg. the binder component on the surface of the hologram. The volatile swelling solvent assist the penetration and diffusion of the residual diffusion component into the hologram by penetrating into the hologram and swelling the hologram. The residual diffusion component has preferably the compatibility with the material of the hologram changing diffraction wavelength and has transparency even after penetration into the hologram. The binder component is a film forming component to form a transparent film on the hologram surface after drying of the volatile swelling solvent. Whitening or the cavities by the generation of bubbles does not preferably arise in this film.

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